

Cook, Dan [DNR]

From: Adam Davison [adavison@senecaco.com]
Sent: Monday, November 08, 2010 4:46 PM
To: Cook, Dan [DNR]
Cc: Cathy Godfrey; Darren Binning
Subject: Former Bourns Trimpot Facility, Ames, IA- Week 9, 10, and 11 Results
Attachments: Shutdown Trend.pdf

Dan,

I have attached the 9th, 10th, and 11th weeks of analytical shutdown monitoring samples. Hard copies will be supplied in the 3rd quarter SMR.

Week 9

MW8, MW9, and SW-2 were below detection levels for all constituents.
SW-1 was below detection levels for all constituents, except Tetrachloroethene (1.13 ug/L) and cis 1,2 Dichloroethene (1.01 ug/L).

Week 10

MW9, SW-1, and SW-2 were below detection levels for all constituents

MW8A- was below detection levels for all constituents, except for Tetrachloroethene (1.09 ug/L).

Week 11

MW9, SW-1, and SW-2 were below detection levels for all constituents

MW8A- was below detection levels for all constituents, except for Tetrachloroethene (1.55 ug/L).

All SW-1 concentrations were below NPDES discharge limits and SW-2, located downstream from SW-1, indicates that all levels are below detection. A concentration graph has been attached depicting 1,2- DCE and PCE at SW-1 and PCE at MW8A.

Seneca recommends to continue with the controlled shutdown.

Sincerely,

Adam Davison, CGP#2042
Project Manager/Geologist
Seneca Environmental Services, Inc.
adavison@senecaco.com
515.261.7732 Phone
515.262.2469 Fax
www.senecaco.com



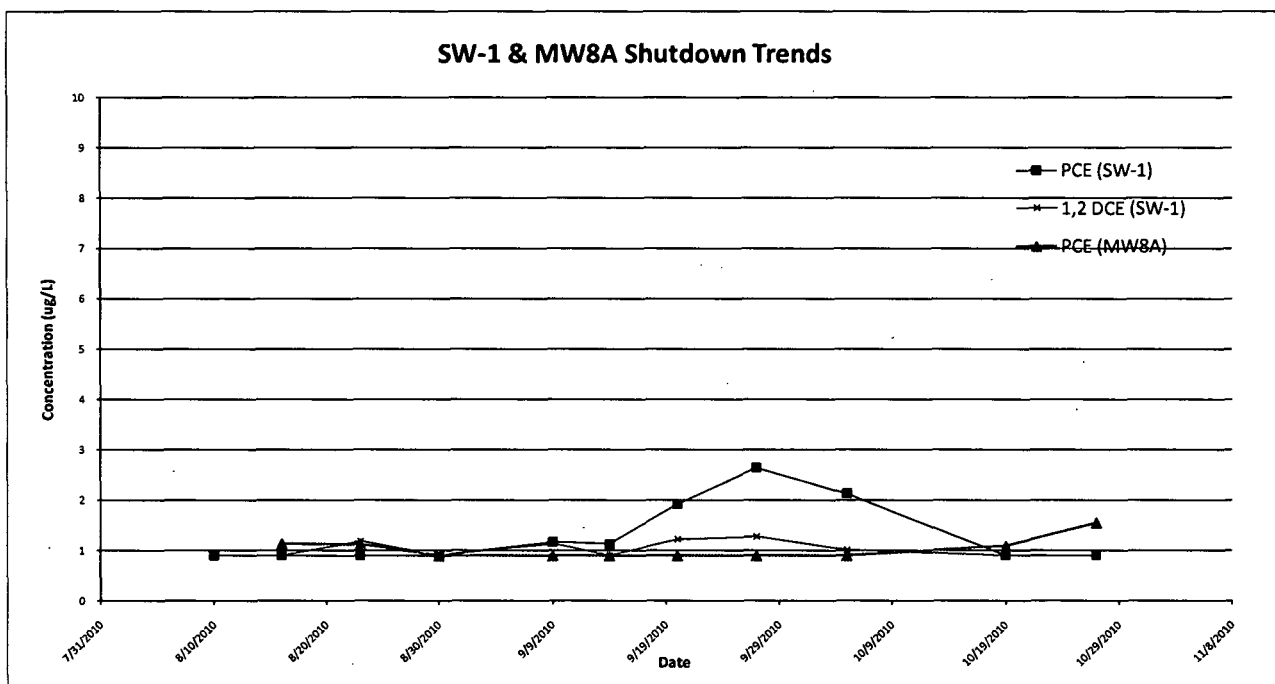
The Complete Solution

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Select Parameter & Water Sample Location

	Date	1,2 DCE (SW-1)	PCE (SW-1)	PCE (MW8A)
Week 1	8/10/2010	<1	<1	
Week 2	8/16/2010	<1	<1	1.14
Week 3	8/23/2010	1.18	<1	1.13
Week 4	8/30/2010	<1	<1	<1
Week 5	9/9/2010	1.13	1.17	<1
Week 6	9/14/2010	<1	1.13	<1
Week 7	9/20/2010	1.22	1.92	<1
Week 8	9/27/2010	1.27	2.64	<1
Week 9	10/5/2010	1.01	2.13	<1
Week 10	10/19/2010	<1	<1	1.09
Week 11	10/27/2010	<1	<1	1.55

*note- <1 concentrations were considered 0.9 for more accurate graphing purposes



October 14, 2010

Client:

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313

Work Order: CTJ0373

Project Name: Bourns

Project Number: 6112453

Attn: Adam Davison

Date Received: 10/06/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SW-1	CTJ0373-01	10/05/10 14:00
SW-2	CTJ0373-02	10/05/10 14:30
MW-9	CTJ0373-03	10/05/10 14:40
MW-8A	CTJ0373-04	10/05/10 15:05

Samples were received into laboratory at a temperature of 1.30 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls
Angela Muehling
Project Coordinator

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ0373-01 (SW-1 - Ground Water)				Sampled: 10/05/10 14:00			Recvd: 10/06/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
cis-1,2-Dichloroethene	1.01		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
Tetrachloroethene	2.13		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
1,1,1-Trichloroethane	<2.00		ug/L	2.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/08/10 00:21	sjn	10J0412	SW 8260B
Surr: Dibromofluoromethane (75-120%)	94 %								
Surr: Toluene-d8 (80-120%)	97 %								
Surr: 4-Bromofluorobenzene (75-110%)	102 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/14/10 14:49	eee	10J0719	SW
Sample ID: CTJ0373-02 (SW-2 - Ground Water)				Sampled: 10/05/10 14:30			Recvd: 10/06/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
1,1,1-Trichloroethane	<2.00		ug/L	2.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/08/10 00:46	sjn	10J0412	SW 8260B
Surr: Dibromofluoromethane (75-120%)	96 %								
Surr: Toluene-d8 (80-120%)	99 %								
Surr: 4-Bromofluorobenzene (75-110%)	100 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/11/10 15:28	eee	10J0518	SW
Sample ID: CTJ0373-03 (MW-9 - Ground Water)				Sampled: 10/05/10 14:40			Recvd: 10/06/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
1,1,1-Trichloroethane	<2.00		ug/L	2.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/08/10 01:12	sjn	10J0412	SW 8260B
Surr: Dibromofluoromethane (75-120%)	92 %								

TestAmerica Cedar Falls
Angela Muchling
Project Coordinator

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ0373-03 (MW-9 - Ground Water) - cont.					Sampled: 10/05/10 14:40		Recvd: 10/06/10 18:30		
Volatile Organic Compounds - cont.									
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (75-110%)	99 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/11/10 15:28	eee	10J0518	SW
Sample ID: CTJ0373-04 (MW-8A - Ground Water)					Sampled: 10/05/10 15:05		Recvd: 10/06/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
1,1,1-Trichloroethane	<2.00		ug/L	2.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/08/10 01:38	sjn	10J0412	SW 8260B
Surr: Dibromofluoromethane (75-120%)	92 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (75-110%)	99 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	10/11/10 15:28	eee	10J0518	SW

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10J0412			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J0412			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J0412			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J0412			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J0412			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	10J0412			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J0412			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J0412			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J0412			ug/L	N/A	1.00	<1.00							
Surrogate: Dibromofluoromethane	10J0412			ug/L					96		75-120			
Surrogate: Toluene-d8	10J0412			ug/L					98		80-120			
Surrogate: 4-Bromofluorobenzene	10J0412			ug/L					96		75-110			

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10J0412		20.0	ug/L	N/A	N/A	20.0		100		60-135		20	
cis-1,2-Dichloroethene	10J0412		20.0	ug/L	N/A	N/A	23.4		117		70-135		15	
trans-1,2-Dichloroethene	10J0412		20.0	ug/L	N/A	N/A	24.0		120		60-145		15	
Methylene Chloride	10J0412		20.0	ug/L	N/A	N/A	21.7		109		55-145		20	
Tetrachloroethene	10J0412		20.0	ug/L	N/A	N/A	25.0		125		70-135		15	
1,1,1-Trichloroethane	10J0412		20.0	ug/L	N/A	N/A	24.2		121		60-125		15	
1,1,2-Trichloroethane	10J0412		20.0	ug/L	N/A	N/A	21.0		105		75-125		15	
Trichloroethene	10J0412		20.0	ug/L	N/A	N/A	24.5		122		70-130		20	
Vinyl chloride	10J0412		20.0	ug/L	N/A	N/A	20.5		102		45-135		20	
Surrogate: Dibromofluoromethane	10J0412			ug/L					101		75-120			
Surrogate: Toluene-d8	10J0412			ug/L					101		80-120			
Surrogate: 4-Bromofluorobenzene	10J0412			ug/L					105		80-120			

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
Volatile Organic Compounds														
QC Source Sample: CTJ0348-21														
I,1-Dichloroethene	10J0412	0.0100	20.0	ug/L	N/A	N/A	20.2	17.1	101	86	35-135	17	30	
cis-1,2-Dichloroethene	10J0412	0.100	20.0	ug/L	N/A	N/A	21.0	21.5	105	107	45-135	2	20	
trans-1,2-Dichloroethene	10J0412	0.0200	20.0	ug/L	N/A	N/A	21.9	22.2	110	111	45-145	1	35	
Methylene Chloride	10J0412	0.0900	20.0	ug/L	N/A	N/A	20.4	20.2	101	101	45-145	1	30	
Tetrachloroethene	10J0412	0.0200	20.0	ug/L	N/A	N/A	21.7	21.4	108	107	40-135	1	20	
1,1,1-Trichloroethane	10J0412	<1.00	20.0	ug/L	N/A	N/A	21.0	21.5	105	107	40-125	2	20	
1,1,2-Trichloroethane	10J0412	<1.00	20.0	ug/L	N/A	N/A	20.1	20.1	100	100	60-130	0	15	
Trichloroethene	10J0412	<1.00	20.0	ug/L	N/A	N/A	21.1	20.9	106	104	50-130	1	20	
Vinyl chloride	10J0412	<1.00	20.0	ug/L	N/A	N/A	17.6	17.2	88	86	30-135	2	20	
Surrogate: Dibromofluoromethane	10J0412			ug/L					100	101	75-120			
Surrogate: Toluene-d8	10J0412			ug/L					96	98	80-120			
Surrogate: 4-Bromofluorobenzene	10J0412			ug/L					103	106	80-120			

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ0373
Project: Bourns
Project Number: 6112453

Received: 10/06/10
Reported: 10/14/10 15:40

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

Method	Matrix	Nelac	Iowa
SW 8260B	Water - NonPotable	X	X
SW	Water - NonPotable		

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

TestAmerica

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: Seneca Environmental

Send Report To:

Your PO #:

Invoice To:

Address: 4140 N.E. 14th Street

TA Quote #:

City/State/Zip Code: Des Moines, IA 50313

Project Name:

Telephone Number: 800-369-3500

Project Number:

Sampled by: (Print Name)

Project Manager:

(Signature)

Proj. Mgr. Telephone:

Proj. Mgr. E-mail:

Analyze For:

Matrix

Preservative

Sample ID	Date Sampled	Time Sampled	# of containers shipped	Grab	Composite	Field Filtered	Ice	HNO ₃ (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H ₂ SO ₄ Plastic (Yellow & White Label)	H ₂ SO ₄ Glass (Yellow & White Label)	None (Black & White Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other Specify:	OA1 BTEX (GC)	OA1 w/ MTBE (GCMS)	OA2	RUSH TAT (Must call ahead)	Standard TAT	E-mail results	Fax Results	Send QC with report
5w1	10/5/10	2:00	3	X			X		X						X													
5w2		2:30																										
mw9		2:40																										
mw8A		3:05																										

NOTE: All turn around times are calculated from the time of receipt at TestAmerica

NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

NOTE: There may be a charge assessed for TestAmerica disposing of sample remainder

Relinquished by

Date

Time

Received by

Date

Time

Comments:

Temperature Upon Receipt

Date

Time

Shipped Via

Shipped Via

Date

Time

Laboratory Comments

Shipped Via

Date

Time

Laboratory Comments

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Seneca Project: Burns
City: Des Moines, Ia
Date: 10/6/10 Receiver's Initials: JMH Time (Delivered): 1830

Temperature Record:

Cooler ID# (If Applicable) <u>BC-5</u>
<u>1.3</u> °C / <u>On Ice</u>

☒ Temp Blank

☐ Temperature out of compliance

Thermometer:

- ☐ IR - 61997671 'B'
☒ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

- | | |
|--|--|
| ☐ UPS | ☒ TA Courier |
| ☐ FedEx | ☐ TA Field Services |
| ☐ FedEx Ground | ☐ Client |
| ☐ US Postal Service | ☐ Other |
| ☐ Spee-Dee | |

Custody seals present?

☐ Yes

Custody seals intact?

☐ Yes ☐ No

☐ Non-Conformance report started

Exceptions Noted

- | |
|---|
| ☐ Sample(s) not received in a cooler. |
| ☐ Sample(s) received same day of sampling. |
| ☐ Evidence of a chilling process |
| ☐ Temperature not taken: |

purge vials

*Refer to SOP CF-SS-01 for Temperature Criteria

H:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev15.doc

October 27, 2010

Client:

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313

Work Order: CTJ1199

Project Name: Bourns

Project Number: 6112453

Attn: Adam Davison

Date Received: 10/20/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SW-1	CTJ1199-01	10/19/10 07:05
SW-2	CTJ1199-02	10/19/10 07:10
MW-8A	CTJ1199-03	10/19/10 07:15
MW-9	CTJ1199-04	10/19/10 07:25

Samples were received into laboratory at a temperature of 0.80 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls

Angela Muchling

Project Coordinator

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1199
Project: Bourns
Project Number: 6112453

Received: 10/20/10
Reported: 10/27/10 14:12

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1199-01 (SW-1 - Ground Water)				Sampled: 10/19/10 07:05			Recvd: 10/20/10 18:15		
Volatile Organic Compounds									
I,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 20:31	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	92 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (75-110%)	96 %								
VOC Preservation Check									
pH	>2		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1199-02 (SW-2 - Ground Water)				Sampled: 10/19/10 07:10			Recvd: 10/20/10 18:15		
Volatile Organic Compounds									
I,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 20:55	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	92 %								
Surr: Toluene-d8 (80-120%)	96 %								
Surr: 4-Bromofluorobenzene (75-110%)	95 %								
VOC Preservation Check									
pH	>2		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1199-03 (MW-8A - Ground Water)				Sampled: 10/19/10 07:15			Recvd: 10/20/10 18:15		
Volatile Organic Compounds									
I,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
Tetrachloroethene	1.09		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 21:17	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	91 %								

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1199
Project: Bourns
Project Number: 6112453

Received: 10/20/10
Reported: 10/27/10 14:12

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1199-03 (MW-8A - Ground Water) - cont.					Sampled: 10/19/10 07:15		Recvd: 10/20/10 18:15		
Volatile Organic Compounds - cont.									
Surr: Toluene-d8 (80-120%)	99 %								
Surr: 4-Bromofluorobenzene (75-110%)	97 %								
VOC Preservation Check									
pH	>2		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW
Sample ID: CTJ1199-04 (MW-9 - Ground Water)					Sampled: 10/19/10 07:25		Recvd: 10/20/10 18:15		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
1,1,1-Trichloroethane	<5.00		ug/L	5.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	10/23/10 21:41	sjn	10J1384	SW 8260B
Surr: Dibromofluoromethane (75-120%)	89 %								
Surr: Toluene-d8 (80-120%)	95 %								
Surr: 4-Bromofluorobenzene (75-110%)	91 %								
VOC Preservation Check									
pH	>2		units	2.00	1	10/27/10 13:53	cmm	10J1413	SW

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1199
Project: Bourns
Project Number: 6112453

Received: 10/20/10
Reported: 10/27/10 14:12

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10J1384			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
trans-1,2-Dichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10J1384			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10J1384			ug/L	N/A	1.00	<1.00							CIN
1,1,1-Trichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
1,1,2-Trichloroethane	10J1384			ug/L	N/A	1.00	<1.00							
Trichloroethene	10J1384			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10J1384			ug/L	N/A	1.00	<1.00							
Surrogate: Dibromofluoromethane	10J1384			ug/L					89		75-120			
Surrogate: Toluene-d8	10J1384			ug/L					97		80-120			
Surrogate: 4-Bromofluorobenzene	10J1384			ug/L					94		75-110			

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1199
Project: Bourns
Project Number: 6112453

Received: 10/20/10
Reported: 10/27/10 14:12

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	22.4		112		60-135		20	
cis-1,2-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	23.0		115		70-135		15	
trans-1,2-Dichloroethene	10J1384		20.0	ug/L	N/A	N/A	21.9		110		60-145		15	
Methylene Chloride	10J1384		20.0	ug/L	N/A	N/A	23.1		115		55-145		20	
Tetrachloroethene	10J1384		20.0	ug/L	N/A	N/A	21.8		109		70-135		15	CIN
1,1,1-Trichloroethane	10J1384		20.0	ug/L	N/A	N/A	18.3		92		60-125		15	
1,1,2-Trichloroethane	10J1384		20.0	ug/L	N/A	N/A	23.1		115		75-125		15	
Trichloroethene	10J1384		20.0	ug/L	N/A	N/A	21.9		110		70-130		20	
Vinyl chloride	10J1384		20.0	ug/L	N/A	N/A	22.5		112		45-135		20	
Surrogate: Dibromofluoromethane	10J1384			ug/L					100		75-120			
Surrogate: Toluene-d8	10J1384			ug/L					97		80-120			
Surrogate: 4-Bromofluorobenzene	10J1384			ug/L					100		80-120			

SENECA - DES MOINES

4140 N.E. 14th St.

Des Moines, IA 50313

Adam Davison

Work Order: CTJ1199

Project: Bourns

Project Number: 6112453

Received: 10/20/10

Reported: 10/27/10 14:12

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
Volatile Organic Compounds														
QC Source Sample: CTJ1197-13														
1,1-Dichloroethene	10J1384	4.12	20.0	ug/L	N/A	N/A	23.4	20.7	97	83	35-135	13	30	
cis-1,2-Dichloroethene	10J1384	0.100	20.0	ug/L	N/A	N/A	21.7	20.7	108	103	45-135	5	20	
trans-1,2-Dichloroethene	10J1384	0.0500	20.0	ug/L	N/A	N/A	20.1	18.9	100	94	45-145	6	35	
Methylene Chloride	10J1384	0.0900	20.0	ug/L	N/A	N/A	20.8	19.7	103	98	45-145	5	30	
Tetrachloroethene	10J1384	75.2	20.0	ug/L	N/A	N/A	81.8	77.8	33	13	40-135	5	20	M1
1,1,1-Trichloroethane	10J1384	4.32	20.0	ug/L	N/A	N/A	22.1	20.6	89	82	40-125	7	20	
1,1,2-Trichloroethane	10J1384	0.0700	20.0	ug/L	N/A	N/A	22.0	20.4	109	102	60-130	7	15	
Trichloroethene	10J1384	0.760	20.0	ug/L	N/A	N/A	22.2	20.3	107	98	50-130	9	20	
Vinyl chloride	10J1384	<1.00	20.0	ug/L	N/A	N/A	20.0	19.4	100	97	30-135	3	20	
Surrogate: Dibromofluoromethane	10J1384			ug/L					94	96	75-120			
Surrogate: Toluene-d8	10J1384			ug/L					97	99	80-120			
Surrogate: 4-Bromofluorobenzene	10J1384			ug/L					97	99	80-120			

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1199
Project: Bourns
Project Number: 6112453

Received: 10/20/10
Reported: 10/27/10 14:12

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

Method	Matrix	Nelac	Iowa
SW 8260B	Water - NonPotable	X	X
SW	Water - NonPotable		

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

>2	>2
CIN	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
M1	The MS and/or MSD were outside control limits.

ADDITIONAL COMMENTS

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Your PO #:

Invoice To:

TA Quote #:

Project Name: Bentley

Project Number: 6113453

Project Manager:

Proj. Mgr. Telephone:

Proj. Mgr. E-mail:

[illegible]

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

704 ENTERPRISE DRIVE • CEDAR FALLS, IA 50613
800-750-2401 • 319-277-2425 FAX

Sample Receipt and Temperature Log Form

Client: Sereca Project: Burns
City: Des Moines, Ia
Date: 10/20/10 Receiver's Initials: JMH Time (Delivered): 1815

Temperature Record:

Cooler ID# (If Applicable) <u>SBL-11</u>
<u>0.8</u> °C / <u>On Ice</u>

☒ Temp Blank

☐ Temperature out of compliance

Custody seals present?

☐ Yes

Custody seals intact?

☐ Yes ☐ No

☐ Non-Conformance report started

Thermometer:

- ☐ IR - 61997671 'B'
☒ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

- | | |
|--|--|
| ☐ UPS | ☒ TA Courier |
| ☐ FedEx | ☐ TA Field Services |
| ☐ FedEx Ground | ☐ Client |
| ☐ US Postal Service | ☐ Other |
| ☐ Spee-Dee | |

Exceptions Noted

- | |
|--|
| ☐ Sample(s) not received in a cooler. |
| ☐ Samples(s) received same day of sampling. |
| ☐ Evidence of a chilling process |
| ☐ Temperature not taken: |

purge vials

*Refer to SOP CF-SS-01 for Temperature Criteria

H:\QA Folder\QA Forms & Log Book pgs\Cooler Receipt rev15.doc

November 03, 2010

Client:

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313

Work Order: CTJ1738

Project Name: Bourns

Project Number: 6112453

Attn: Adam Davison

Date Received: 10/29/10

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SW-1	CTJ1738-01	10/27/10 08:30
SW-2	CTJ1738-02	10/27/10 08:45
MW-8A	CTJ1738-03	10/27/10 09:00
MW-9	CTJ1738-04	10/27/10 09:10

Samples were received into laboratory at a temperature of 0.60 °C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the specific sample analyzed.

Approved By:



TestAmerica Cedar Falls

Angela Muchling
Project Coordinator

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1738
Project: Bourns
Project Number: 6112453

Received: 10/29/10
Reported: 11/03/10 13:27

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1738-01 (SW-1 - Ground Water)				Sampled: 10/27/10 08:30			Recvd: 10/29/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	11/01/10 09:44	sjn	10K0106	SW 8260B
Surr: Dibromofluoromethane (75-120%)	95 %								
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (75-110%)	101 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	11/03/10 11:44	eee	10K0185	SW
Sample ID: CTJ1738-02 (SW-2 - Ground Water)				Sampled: 10/27/10 08:45			Recvd: 10/29/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
Tetrachloroethene	<1.00	CIN	ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	11/01/10 10:06	sjn	10K0106	SW 8260B
Surr: Dibromofluoromethane (75-120%)	99 %								
Surr: Toluene-d8 (80-120%)	99 %								
Surr: 4-Bromofluorobenzene (75-110%)	103 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	11/03/10 11:44	eee	10K0185	SW
Sample ID: CTJ1738-03 (MW-8A - Ground Water)				Sampled: 10/27/10 09:00			Recvd: 10/29/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00	CIN	ug/L	2.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
cis-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
Tetrachloroethene	1.55	CIN	ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
1,1,1-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
1,1,2-Trichloroethane	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	11/01/10 10:28	sjn	10K0106	SW 8260B
Surr: Dibromofluoromethane (75-120%)	103 %								

TestAmerica Cedar Falls
Angela Muehling
Project Coordinator

SENECA - DES MOINES
4140 N.E. 14th St.
Des Moines, IA 50313
Adam Davison

Work Order: CTJ1738
Project: Bourns
Project Number: 6112453

Received: 10/29/10
Reported: 11/03/10 13:27

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	Quan. Limit	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: CTJ1738-03 (MW-8A - Ground Water) - cont.					Sampled: 10/27/10 09:00		Recvd: 10/29/10 18:30		
Volatile Organic Compounds - cont.									
Surr: Toluene-d8 (80-120%)	98 %								
Surr: 4-Bromofluorobenzene (75-110%)	104 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	11/03/10 11:44	eee	10K0185	SW
Sample ID: CTJ1738-04 (MW-9 - Ground Water)					Sampled: 10/27/10 09:10		Recvd: 10/29/10 18:30		
Volatile Organic Compounds									
1,1-Dichloroethene	<2.00		ug/L	2.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
cis-1,2-Dichloroethene	<1.00	CIN	ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
trans-1,2-Dichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
Methylene Chloride	<5.00		ug/L	5.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
Tetrachloroethene	<1.00		ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
1,1,1-Trichloroethane	<1.00	CIN	ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
1,1,2-Trichloroethane	<1.00	CIN	ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
Trichloroethene	<1.00		ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
Vinyl chloride	<1.00		ug/L	1.00	1	11/01/10 10:51	sjn	10K0106	SW 8260B
Surr: Dibromofluoromethane (75-120%)	96 %								
Surr: Toluene-d8 (80-120%)	100 %								
Surr: 4-Bromofluorobenzene (75-110%)	104 %								
VOC Preservation Check									
pH	<2.00		units	2.00	1	11/03/10 11:44	eee	10K0185	SW

SENECA - DES MOINES

4140 N.E. 14th St.

Des Moines, IA 50313

Adam Davison

Work Order: CTJ1738

Project: Bourns

Project Number: 6112453

Received: 10/29/10

Reported: 11/03/10 13:27

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10K0106			ug/L	N/A	2.00	<2.00							
cis-1,2-Dichloroethene	10K0106			ug/L	N/A	1.00	<1.00							CIN
trans-1,2-Dichloroethene	10K0106			ug/L	N/A	1.00	<1.00							
Methylene Chloride	10K0106			ug/L	N/A	5.00	<5.00							
Tetrachloroethene	10K0106			ug/L	N/A	1.00	<1.00							
1,1,1-Trichloroethane	10K0106			ug/L	N/A	1.00	<1.00							CIN
1,1,2-Trichloroethane	10K0106			ug/L	N/A	1.00	<1.00							CIN
Trichloroethene	10K0106			ug/L	N/A	1.00	<1.00							
Vinyl chloride	10K0106			ug/L	N/A	1.00	<1.00							
Surrogate: Dibromofluoromethane	10K0106			ug/L					100		75-120			
Surrogate: Toluene-d8	10K0106			ug/L					99		80-120			
Surrogate: 4-Bromofluorobenzene	10K0106			ug/L					104		75-110			

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Reported: 11/03/10 13:27

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	Limit	Q
Volatile Organic Compounds														
1,1-Dichloroethene	10K0106		20.0	ug/L	N/A	N/A	17.5		88		60-135		20	
cis-1,2-Dichloroethene	10K0106		20.0	ug/L	N/A	N/A	18.4		92		70-135		15	CIN
trans-1,2-Dichloroethene	10K0106		20.0	ug/L	N/A	N/A	18.0		90		60-145		15	
Methylene Chloride	10K0106		20.0	ug/L	N/A	N/A	19.2		96		55-145		20	
Tetrachloroethene	10K0106		20.0	ug/L	N/A	N/A	18.8		94		70-135		15	
1,1,1-Trichloroethane	10K0106		20.0	ug/L	N/A	N/A	18.7		94		60-125		15	CIN
1,1,2-Trichloroethane	10K0106		20.0	ug/L	N/A	N/A	17.1		86		75-125		15	CIN
Trichloroethene	10K0106		20.0	ug/L	N/A	N/A	18.9		95		70-130		20	
Vinyl chloride	10K0106		20.0	ug/L	N/A	N/A	18.2		91		45-135		20	
Surrogate: Dibromofluoromethane	10K0106			ug/L					100		75-120			
Surrogate: Toluene-d8	10K0106			ug/L					98		80-120			
Surrogate: 4-Bromofluorobenzene	10K0106			ug/L					103		80-120			

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Volatile Organic Compounds														
QC Source Sample: CTJ1690-05														
1,1-Dichloroethene	10K0106	0.0600	20.0	ug/L	N/A	N/A	16.1	15.4	80	77	35-135	4	30	
cis-1,2-Dichloroethene	10K0106	0.110	20.0	ug/L	N/A	N/A	16.0	16.3	79	81	45-135	2	20	CIN
trans-1,2-Dichloroethene	10K0106	0.160	20.0	ug/L	N/A	N/A	15.5	15.4	77	76	45-145	1	35	
Methylene Chloride	10K0106	0.320	20.0	ug/L	N/A	N/A	16.9	17.4	83	85	45-145	3	30	
Tetrachloroethene	10K0106	0.0800	20.0	ug/L	N/A	N/A	17.3	17.6	86	88	40-135	2	20	
1,1,1-Trichloroethane	10K0106	0.0200	20.0	ug/L	N/A	N/A	15.6	16.5	78	82	40-125	5	20	CIN
1,1,2-Trichloroethane	10K0106	0.0500	20.0	ug/L	N/A	N/A	14.4	14.6	72	73	60-130	1	15	CIN
Trichloroethene	10K0106	0.160	20.0	ug/L	N/A	N/A	16.1	16.3	80	81	50-130	1	20	
Vinyl chloride	10K0106	0.0900	20.0	ug/L	N/A	N/A	16.7	16.5	83	82	30-135	1	20	
Surrogate: Dibromofluoromethane	10K0106			ug/L					99	99	75-120			
Surrogate: Toluene-d8	10K0106			ug/L					99	97	80-120			
Surrogate: 4-Bromofluorobenzene	10K0106			ug/L					105	101	80-120			

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Reported: 11/03/10 13:27

CERTIFICATION SUMMARY

TestAmerica Cedar Falls

Method	Matrix	Nelac	Iowa
SW 8260B	Water - NonPotable	X	X
SW	Water - NonPotable		

Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF-FSS-01.

DATA QUALIFIERS AND DEFINITIONS

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

ADDITIONAL COMMENTS

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Company: Seneca Environmental

Send Report To:

Address: 4140 N.E. 14th Street

City/State/Zip Code: Des Moines, IA 50313

Telephone Number: 800-369-3500

Sampled by: (Print Name)

(Signature)

Proj. Mgr. Telephone:

Proj. Mgr. E-mail:

Analyze For:

[illegible]

Sample Receipt and Temperature Log Form

Client: Seneca

Project: Burns

City: Des Moines, IA

Date: 10/29/10 Receiver's Initials: JMH Time (Delivered): 1830

Temperature Record:

Cooler ID# (If Applicable) <u>SENECA #3</u>
<u>0.6</u> °C / <u>On Ice</u>

☒ Temp Blank

☐ Temperature out of compliance

Custody seals present?

☐ Yes

Custody seals intact?

☐ Yes ☐ No

☐ Non-Conformance report started

Thermometer:

- ☐ IR - 61997671 'B'
☒ IR - 90876942 'C'
☐ IR - 61854108
☐ 22126775

Courier:

- | | |
|--|--|
| ☐ UPS | ☒ TA Courier |
| ☐ FedEx | ☐ TA Field Services |
| ☐ FedEx Ground | ☐ Client |
| ☐ US Postal Service | ☐ Other |
| ☐ Spee-Dee | |

Exceptions Noted

- | |
|--|
| ☐ Sample(s) not received in a cooler. |
| ☐ Samples(s) received same day of sampling. |
| ☐ Evidence of a chilling process |
| ☐ Temperature not taken: |

purge vials